

FIG. 1

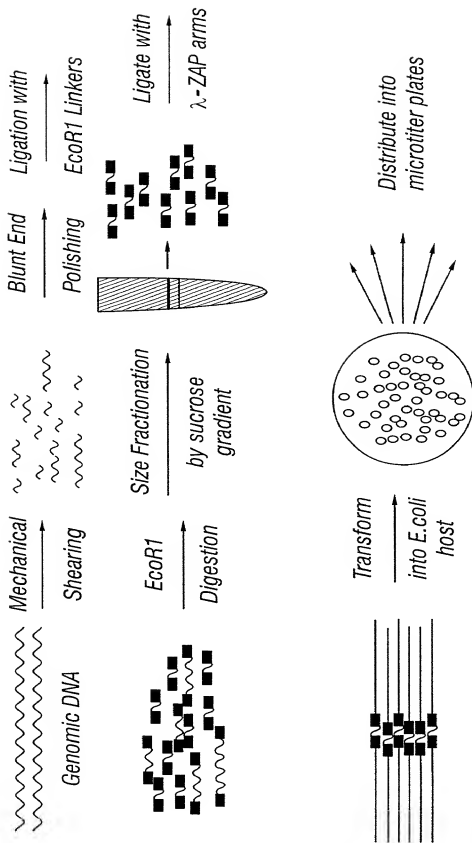


FIG. 2

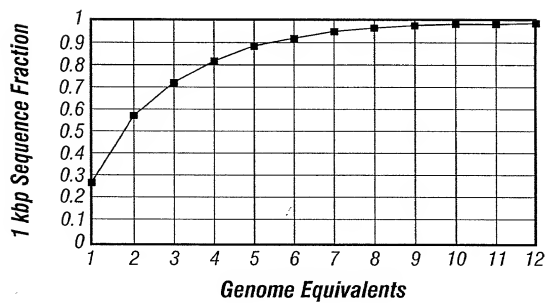
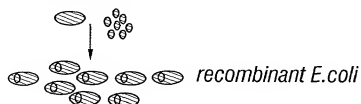


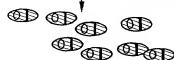
FIG. 3

Cell sorting to screen for recombinant
enzymes

excise λ library into *E. coli*



add enzyme substrate



recombinant enzyme
cleaves substrate
to make cells fluorescent



sort

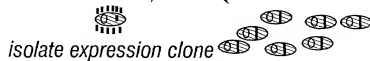


FIG. 4

β -Gal clone with different substrates

- cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.
- bright spot indicates staining of cells

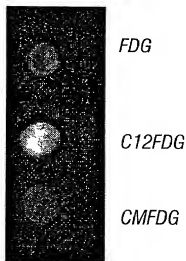


FIG. 5

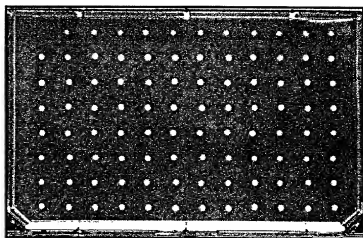


FIG. 6

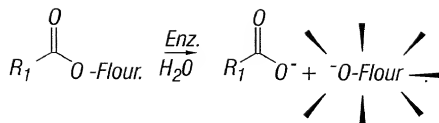


FIG. 7

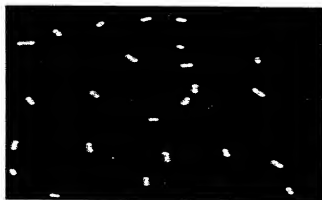


FIG. 8

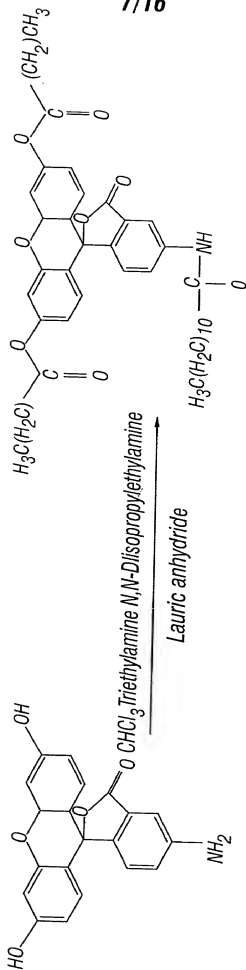


FIG. 9

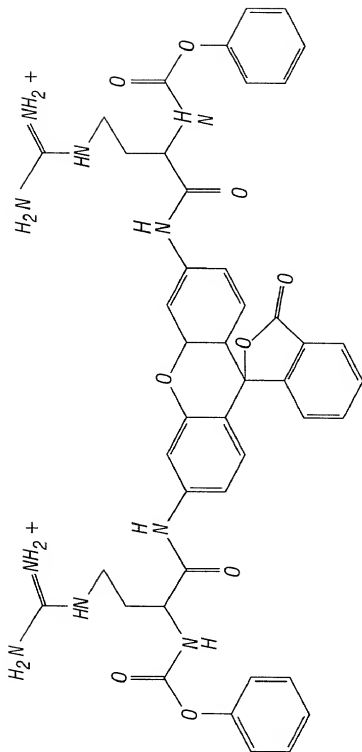


FIG. 10

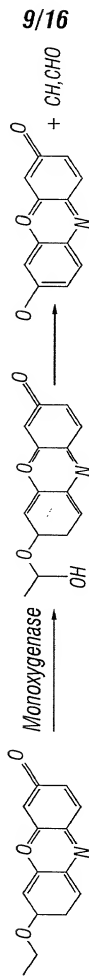


FIG. 11

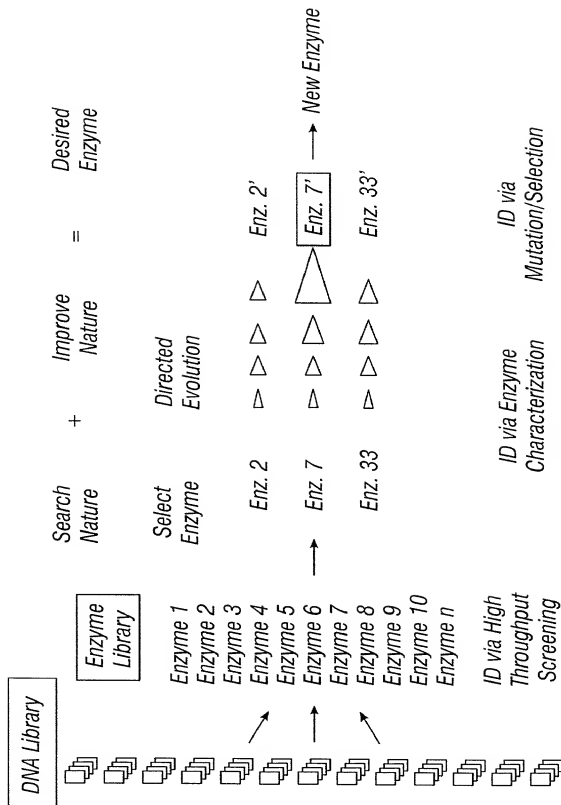


FIG. 12



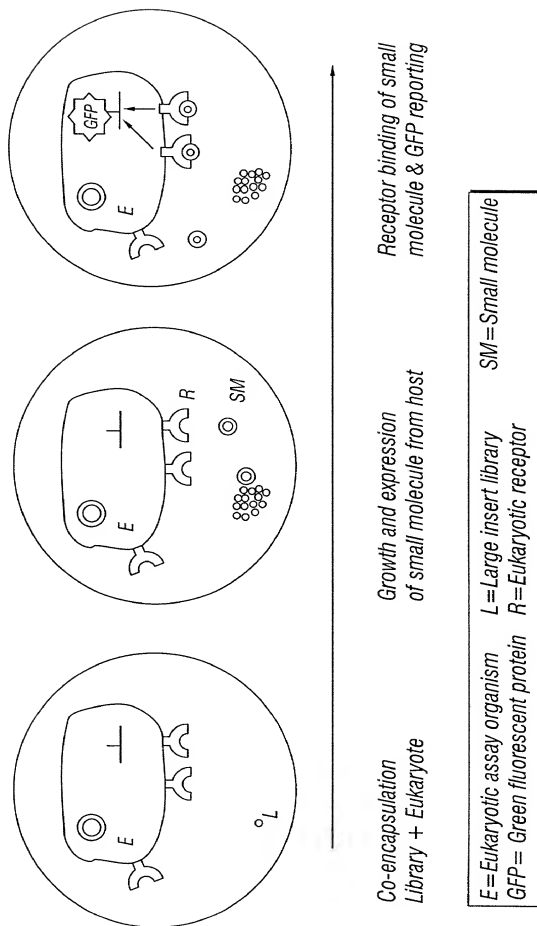


FIG. 14

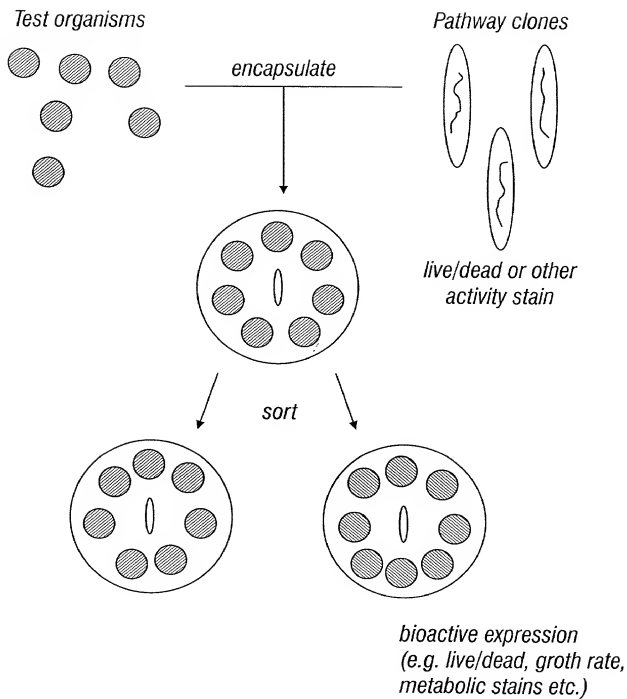
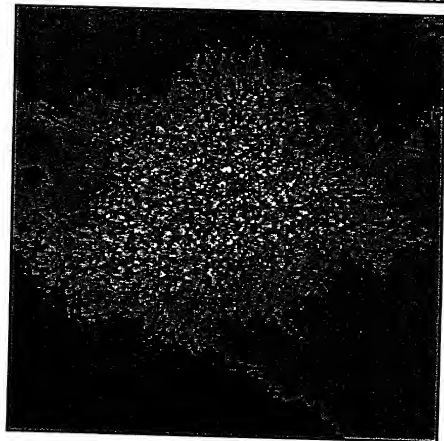
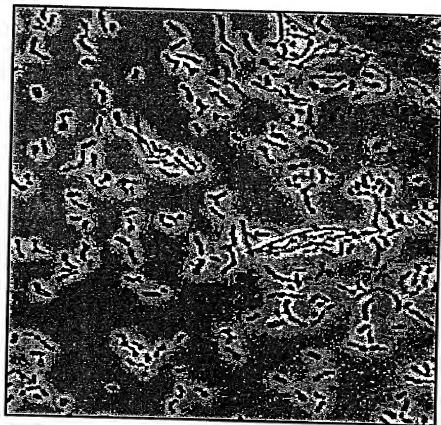


FIG. 15

FOCUS: 5001050



Streptomyces lividans
mycelia



Streptomyces "diversa"
unicells

FIG. 16

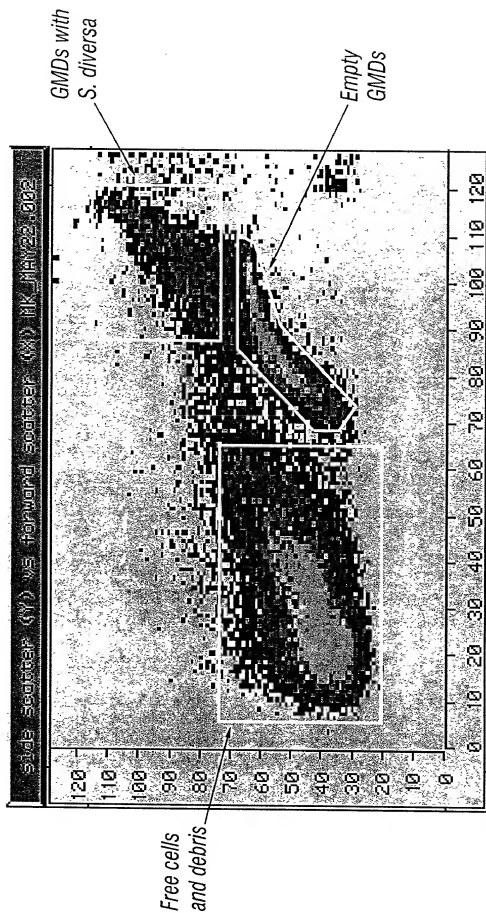


FIG. 17

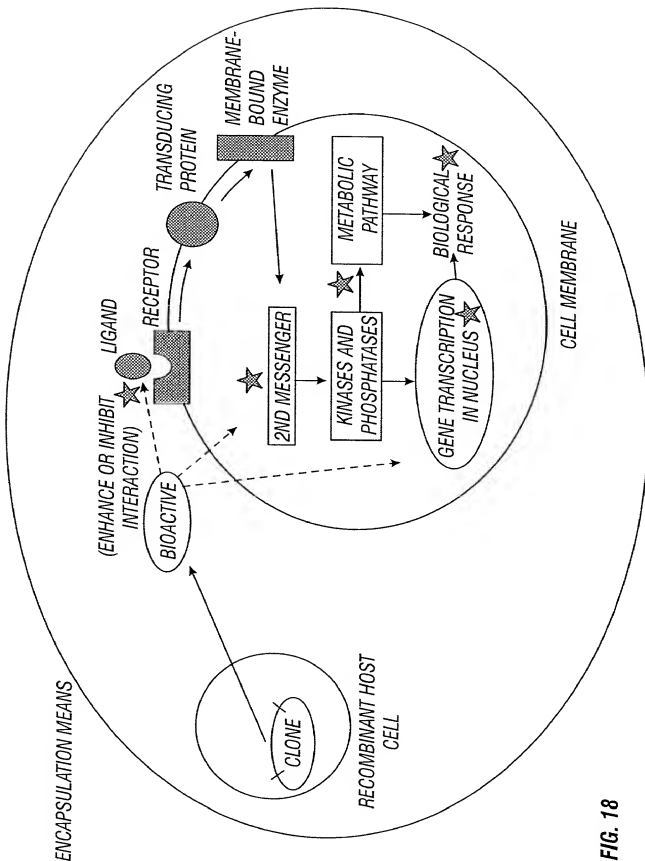


FIG. 18